

INSTALLER'S INSTALLATION INSTRUCTIONS
-Warnings-

This manual must be followed exactly.

The Rinnai Water Heater is not suitable for use in pool or spa applications.

Installer must install a Pressure relief valve. Pipe pressure relief discharge to a drain or outside environment.

Maintain proper space around the unit for proper servicing and operation. Minimum clearances from combustible materials are listed below.

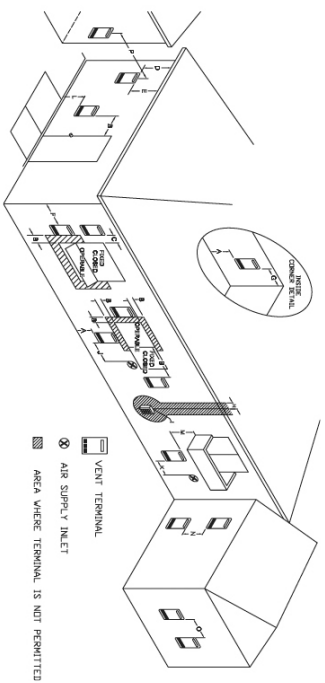
Top of Heater	12 inches
Back of Heater	0 inch
Front of Heater	24 inches
Sides of Heater	6 inches
Ground	12 inches

Minimum clearances from non-combustible materials are listed below.

Top of Heater	2 inches
Back of Heater	0 inch
Front of Heater	24 inches
Sides of Heater	1/2 inches
Bottom	2 inches

RECOMMENDED VENT/AIR INTAKE TERMINAL POSITION

Terminals should be so positioned as to avoid products of combustion entering openings into buildings or other flues or vents.

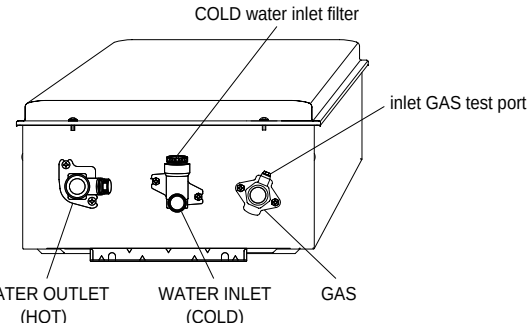


INSTALLER'S INSTALLATION INSTRUCTIONS
Locating the vent terminal

REF	DESCRIPTION	U.S. Installations	Canadian Installations
A	Clearance above grade, veranda, porch, deck, or balcony	1 foot	1 foot
B	Clearance to window or door that may be opened	**1 foot	1 foot
C	Clearance to permanently closed window	*	*
D	Vertical clearance to ventilated soffit, eaves or overhang	3 feet	3 feet
E	Clearance to unventilated soffit, eaves or overhang	3 feet	3 feet
F	Clearance to outside corner	1 foot	1 foot
G	Clearance to inside corner	2 feet	2 feet
H	Clearance to each side of center line extended above meter/regulator assembly	*	3 feet within a height 15 feet, above the meter/regulator assembly
I	Clearance to service regulator vent outlet	*	3 feet

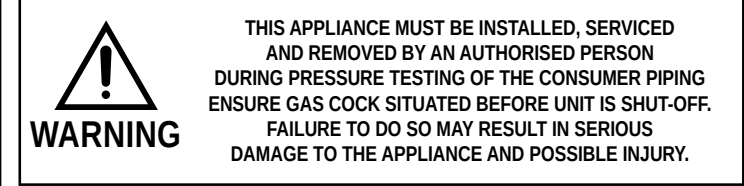
□ The vent pipe has a negative slope/grade to the outside of three degrees (3°) or 5/8" per foot of vent pipe. If the vent pipe is sloped back towards the appliance as some code may require, provisions SHALL be made to collect all condensation to drain off and away from the appliance to a proper drain source. See local code for details.

□ You have no more than three bends in your vent system and the length does not exceed Rinnai specifications.



GAS PRESSURE SETTING AND DIAGNOSTICS INFORMATION

NOTE: For additional installation and commissioning information refer to Operation / Installation Manual



APPLIANCE OPERATING PRESSURES

Table 1.							
	Water Inlet Min.	Gas Inlet Min./ Max.		Forced Low		Forced High	
		Nat.G	Prop.G	Nat.G	Prop.G	Nat.G	Prop.G
REU-V2532W REU-V2532WC REU-V2526W	150PSI	6"W.C. 10.5"W.C.	10"W.C. 13.5"W.C.	0.56"W.C.	0.88"W.C.	3.4"W.C.	5.1"W.C.

COMMISSIONING

With all gas appliances in operation at maximum gas rate, the flowing inlet pressure at the incoming test point on the Rinnai Water Heaters should read 6"W.C. - 10.5"W.C. on Natural Gas and 10"W.C. - 13.5"W.C. on Propane Gas. If the pressure is lower, the gas supply is inadequate and the appliance unit will not operate to specification. Check gas meter, regulator and pipework for correct operation/sizing and rectify as required.

GAS PRESSURE SETTING

(Ensure gas pressure check under Commissioning above has been completed first)
The regulator is electronically controlled and factory pre-set. **Under normal circumstances it does not require adjustment during installation. Make adjustments only if the unit is not operating correctly and all other possible causes for incorrect operation have been eliminated.**

- Turn 'OFF' the gas supply.
- Turn 'OFF' 120V power supply.
- Remove the front cover from the appliance.
- Check gas test switches (Fig.1) are in the correct position (dip switch 1 of SW2 'ON' = NG, 'OFF' = LPG)

Note: 'ON' towards front, 'OFF' towards rear.

- Attach pressure gauge to burner test point, located on the gas control. (Fig.2).
- Turn 'ON' the gas supply.
- Turn 'ON' 120V power supply.
- If remote controllers are fitted, turn the unit 'ON' at the kitchen controller, select the maximum delivery temperature and open all available hot water taps full including the shower.
(CAUTION: Ensure building occupants do not have access to hot water outlets during this procedure).

REF	DESCRIPTION	U.S. Installations	Canadian Installations
J	Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance	**1 foot	1 foot
K	Clearance to a forced air inlet into a building	3 feet	6 feet
L	Clearance above paved sidewalk or paved driveway located on public property	*	7 feet
M	Clearance under deck, veranda, porch, or balcony (open on 3 sides)	3 feet	3 feet
N	Vent Flue from wall (Flat or Pitched Roof)	2 feet	2 feet
O	Vertical between two terminals on the same wall above each other	5 feet	5 feet
P	Clearance between two vertical flue on the same plane	1 foot	1 foot
Q	Horizontal between two terminals on the same wall	1 foot	1 foot
R	Clearance between two Vertical flue on pitched roof above each other	5 feet	5 feet
S	Clearance from terminal facing a terminal	4 feet	4 feet

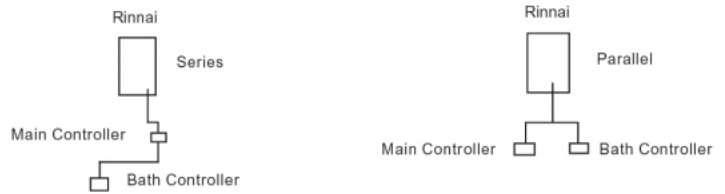
* For clearances not specified in ANSI Z223.1 / NFPA 54 or CAN/CGA-B149, please use clearances in accordance with local installation codes and the requirement of the gas supplier.
** 4 feet for Other than Direct-Vent Appliance.

INSTALLER'S INSTALLATION INSTRUCTIONS
Remote Controllers - General

The remote controls for the Rinnai Water Heater allow the customer to control the functions of the water heater and to diagnose certain fault conditions.

- Before installing the remote controllers, determine the most convenient location(s). When deciding on the best location for the remote controllers, please consider the following items:
- Place the controllers out of reach of small children.
 - Avoid locations where the controller(s) will become hot. (over the stove, near the oven or a radiant heater.
 - Avoid direct sunlight. (The digital monitor can be difficult to read in direct sunlight)
 - Avoid areas where the remote can be splashed with cooking water, oil or sauce.
 - The remote controller cables carry low voltage, 12VDC digital.

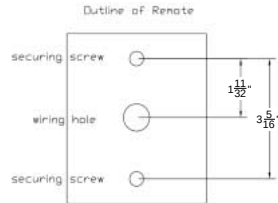
Every installation is different



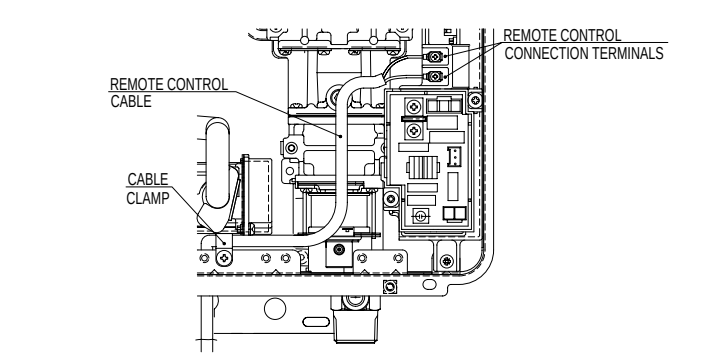
The controllers can be wired in series or in parallel depending on the distance from the Rinnai to the controllers.

INSTALLER'S INSTALLATION INSTRUCTIONS
Remote Controllers - Installation

- Determine a suitable location for the controller.
- Make three holes on the wall as shown.
- Run the cable between the controller and the Rinnai Water Heater or the controller and the other controller.

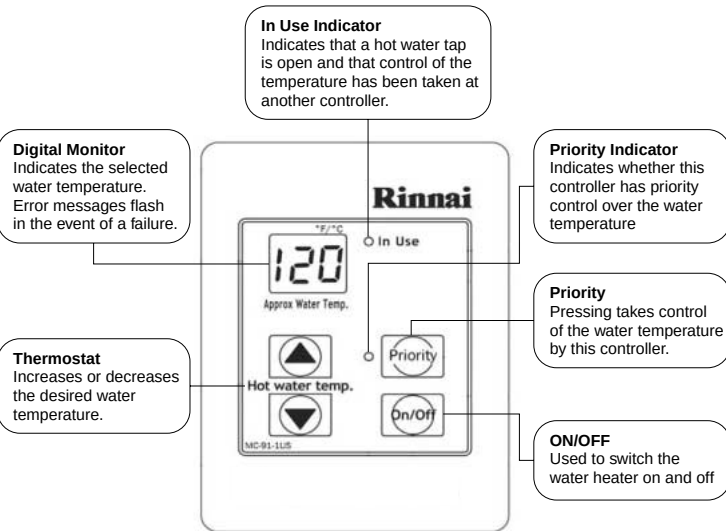


- Remove the face plate from the remote controller.
- Connect the cable to the remote controller.
- Mount the controller to the wall using the holes drilled in step 2.
- Disconnect the power from the Rinnai Water Heater.
- Remove the cover of the Rinnai Water Heater.
- Remove the plastic cover from the PCB and electrical connections.
- DO NOT ATTEMPT to CONNECT THE REMOTE CONTROLLERS WITH THE POWER ON, THERE'S 120 VOLT POTENTIAL, NEXT TO THE REMOTE CONTROLLER CONNECTIONS INSIDE THE UNIT. All service and wiring should be performed by a certified installer.



- Thread the cable through the access hole at the base of the unit and connect the wires to the controller terminals on the right hand side bottom of the PCB.
- Secure the controller cable using the clamp provided.
- Replace plastic cover over PCB and then replace the cover of the Rinnai.

REMOTE CONTROLLER OPERATION



DIAGNOSTIC USE OF CONTROLLER

- To Display Maintenance Codes: Press 'On/Off' button. To sequence through stored maintenance codes, press 'On/Off' followed by the thermostat button.
- To Display Water Flow through water heater: Press thermostat button, hold for 2 seconds and simultaneously press 'On/Off' button.
- To display Outlet Water Temperature: Press thermostat button, hold for 2 seconds and simultaneously press 'On/Off' button.

TO CHANGE TEMPERATURES FROM °F to °C

- Press and hold 'On/Off' button for 5 seconds while water heater is OFF.
- To change back from °C to °F, please repeat step 1.

MUTE

To eliminate the beeping sound, press and hold thermostat button and thermostat button simultaneously until a 'beep' is heard (approximately 5 seconds).

GENERAL CONTROLLER INFORMATION

Temperature controllers allows precise temperature control by the user. When used correctly, the hot water unit will deliver the selected temperature, even when the water flow is varied, or more than one tap is in use. Each Temperature Controller can be individually programmed, however the water heater unit can only deliver one set temperature at any time. The available temperatures (°F) are as follows:

model	temperature															
REU-V2526W(°F) REU-V2532W	98	100	102	104	106	108	110	115	120	125	130	135	140	—	—	—
REU-V2532WC(°F)	98	100	102	104	106	108	110	115	120	125	130	135	140	150	160	185
Approx. temperature(°C)	37	38	39	40	41	42	43	46	49	52	54	57	60	66	71	85

WARNING
In appropriate Dip Switch setting can damage the Rinnai water heater and may void the warranty of this unit

Code Displayed	Fault	Items to Inspect
00	When checking maintenance code history, "00" is substituted for "LC"	Build up of lime scale in heat exchanger - needs to be flushed.
02	No burner operation during freeze protection mode	Verify that gas supply is turned on to the water heater and valve at meter or tank is open. Verify proper gas type and supply pressure. Bleed air from gas line. Verify all ignition component/wires are connected.
03	Power interruption during Water Smart/Bath Fill (Hot water will not flow when power returns)	Turn off all hot water taps. Press ON/OFF twice.
10	Air intake supply or exhaust blockage	Check for a restriction in exhaust or intake vent, verify proper dip switch settings. Ensure only Rinnai approved venting components are used.
11	No Ignition	Verify that gas supply is turned on to the water heater and at meter or tank. Verify proper gas type and supply pressure. Bleed air from gas line. Verify all ignition component/wires are connected.
12	Flame Failure, poor ground connection	Make sure gas is turned on at the water heater; check for obstructions in exhaust vent. Ensure only Rinnai approved venting components are used. Verify proper grounding. Check for debris or moisture in burner area.
14	Thermal Fuse	Ensure high and low fire manifold gas pressures are properly set. Verify dip switch settings are correct. Measure resistance in ohms of safety circuit.
16	Over Temperature Warning	Verify dip switch settings, check manifold pressure and verify gas type for water heater. Check for clogged heat exchanger. Check for low water flow in a circulating system causing short-cycling.
32	Outlet water temperature sensor reading out of expected range	Check outlet temperature sensor or wiring for damage. Measure resistance of sensor. Clean sensor of scale build - up.
33	Heat exchanger outlet water temperature faulty	Check H.E. outlet sensor or wiring. Measure resistance of sensor. Clean sensor of scale build-up.
52	Modulating Solenoid Valve signal abnormal	Check gas control wiring harness and measure resistance of valve coil in ohms.
61	Combustion Fan Failure	Combustion fan or wiring harness faulty. Make sure motorfan turns freely. Measure resistance of motor winding.
65	Water Flow Servo Faulty (Does not stop flow properly)	Water Flow Servo or wiring faulty. Check Water Flow Servo wiring harness connection. Measure resistance of Water Flow Servo wiring.
71	SV0, SV1, SV2 or SV3 Solenoid Valve Circuit Faulty	Check all gas solenoid wiring harness and connections. Measure resistance of each solenoid valve coil.
72	Flame Sensing Device Faulty	Check flame rod and wiring harness connections. Measure micro amp output of sensor circuit with flame present. Clean flame sensor of any build-up. Check for debris in burner chamber that may block flame from sensor.
LC	Scale build-up in Heat Exchanger	Build up of lime scale in heat exchanger it needs to be flushed.
No code or blank display	Nothing happens when water flows through water heater.	Clean inlet filter screen and ensure you have at least the minimum flow rate required to fire unit. Check for pipe dope inside water control turbine. On new installations, ensure hot and cold water lines are not crossed. Check for bleed over. Isolate unit from building by turning off hot water line to building. Then open your pressure relief valve, if unit fires, there's a bleed over in your plumbing. If a circulating system is in use, it must be isolated also. Remote control does not light up but you have 12 VDC at the terminals for controls. Disconnect water flow control motor, then turn on hot water, if unit fires replace water flow control assembly.

SERVICEMAN'S TROUBLESHOOTING INFORMATION
for the RINNAI WATER HEATERS

IMPORTANT SAFETY NOTES:
There are a number of (live) tests that are required when fault finding this product. Extreme care should be used at all times to avoid contact with energized components inside the water heater. **Only trained and qualified service agencies should attempt to repair this product.** Remember, before checking for resistance readings, you should disconnect the power source to the unit and isolate item the to be checked from the circuit (unplug it).

(TR) Transformer:

Wire color	Voltage	Resistance	Connector #	Pin #'s
Black ~ White	90 ~ 100 VAC	51 ~ 63 ohms	F9	1 ~ 2
Blue ~ Brown	108 ~ 132 VAC	51 ~ 63 ohms	F7	1 ~ 3

(SV1, SV2, SV3 and POV) Gas valve and Modulating solenoids: (Set meter above 2K)

(Main) Pink ~ Black	80 ~ 100 VDC	1.7K ~ 2K ohms	E1	1 ~ 2
(SV1) Black ~ Yellow	80 ~ 100 VDC	1.7K ~ 2K ohms	E2	2 ~ 3
(SV2) Black ~ Blue	80 ~ 100 VDC	1.7K ~ 2K ohms	E3	2 ~ 4
(SV3) Black ~ Brown	80 ~ 100 VDC	1.7K ~ 2K ohms	E4	2 ~ 5
(POV) Pink ~ Pink	2 ~ 15 VDC	67 ~ 81 ohms	C2	3 ~ 4

(M) Water Flow Control Device Servo or Geared Motor:

Red ~ Blue	11 ~ 13 VDC	22 ~ 26 ohms	B2	9 ~ 10
Grey ~ Brown	4 ~ 6 VDC	N/A	B2	5 ~ 7
Grey ~ Yellow	N/A	N/A	B2	5 ~ 8
Grey ~ Orange	11 ~ 14 VDC	N/A	B2	5 ~ 6

NOTE: The grey wire listed above turns to black at B connector on the PCB, the orange wire turns to red.

Suggested temperatures are:
Kitchen 120°F - 130°F, Shower 98°F - 110°F, Bath fill 102°F - 114°F
These temperatures are suggestions only. You may find higher or lower temperatures more comfortable. Maintaining lower temperatures helps save energy. To obtain water temperatures lower than 98°F, simply add cold water.

Deluxe Controllers are an optional extra. 'Controller' and 'Deluxe' Controllers can be installed together. Controllers allow temperature selection only. 'Deluxe' Controllers have temperature selection, bath fill and clock functions.

Controllers allow the water temperature to be set from the various locations where they are installed. The temperature selected will be available to all outlets. Below are the combination of Controllers that are offered by Rinnai:

Controllers Combination Pattern

Remote and Deluxe Controllers					
1	MC-91-1US	+	—	+	—
2	MC-91-1US	+	MC-91-1US	+	—
3	MC-91-1US	+	MC-91-1US	+	MC-91-1US
4	MC-91-1US	+	MC-91-1US	+	MC-91-1US
5	MC-91-1US	+	BC-100V	+	MC-100V
6	MC-91-1US	+	MC-91-1US	+	BC-100V

**See controller manual in controller carton box for more information detail.

Water Smart / Bath Fill Temperature Table

temperature															
water smart/ bath fill temperature (°F)	98	100	102	104	106	108	110	112	114	116	118	120			
Approx. temperature (°C)	37	38	39	40	41	42	43	44	46	47	48	49			

Attention Installer! - Have You Checked Everything?
For full details - Always Refer to Rinnai Installation Instructions

□ HOT (outlet) and COLD (inlet) water lines are not crossed to the unit and are leak free.

□ You have installed isolating valves, unions, and drain down vales on the cold water inlet line and hot water outlet lines. (These components are used for servicing and/or removing the appliance quickly).

□ COLD water inlet filter was cleaned after installation. (The filter MUST be cleaned after installing the unit)

□ A pressure relief valve is installed and is rated for 200,000 Btu/s at 150 PSI per local code.

□ 120 VOLTS A.C. is connected to the unit, it is properly GROUNDED and circuit is turned on.

□ Gas supply system is properly sized. All gas meters, regulators, gas line types, tanks, etc. have a BTU value. Please confirm that all components meet the gas requirements at this location. Verify the system is functioning correctly by connecting your manometer to the gas pressure test port on the Rinnai unit. Operate all gas appliances in the facility. The inlet gas pressure must not drop below that listed in the owner's manual specification sheet or appliance rating plate.

□ Proper gas type and pressure is supplied to the unit. (See owner's manual for correct inlet gas pressures in the specification section. Normal inlet gas pressures are 7" to 10" of water column for natural gas, and 11" to 13" of water column for propane gas).

□ Gas supply pipe is purged of foreign material before connection.

□ Proper model controllers are used, connected and functioning.

□ Instructed the customer how to operate the Controllers.

□ Verify proper clearances around the unit and all vents and air intakes. (See owner's manual for all clearance requirements.)

□ Explained to the customer to never store anything around the vent terminals or block the air and/or exhaust ports to the unit.

For Internal models only

□ Ensure you used the proper venting materials for the unit you have installed.

(QS) Water Flow Sensor:

Black ~ Red	11 ~ 13 VDC	5.5K ~ 6.2K	B4	5 ~ 6
Yellow ~ Black	4 ~ 7 VDC	1 meg ~ 1.4 meg	B4	1 ~ 5

By-pass Flow Control: (REU-V2532W/WC ONLY)

Brown ~ White	2 ~ 6 VDC	Unit in operating mode	G4 ~ G5	4 ~ 5
Orange ~ White			G2 ~ G5	2 ~ 5
Yellow ~ White			G1 ~ G5	1 ~ 5
Red ~ White/ Ground		15 ~ 35K	G3 ~ G5	3 ~ 5

(IG) Ignition System:

Grey ~ Grey	90 ~ 100 VAC	N/A	A1	1 ~ 2
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(FM) Combustion Fan Motor:

Red ~ Black	6 ~ 45 VDC	N/A	A1	1 ~ 2
White ~ Black	5 ~ 10 VDC	9.2K ~ 9.4K	A1	2 ~ 4
Yellow ~ Black	11 ~ 13 VDC	3.5K ~ 3.9K	A1	2 ~ 3

Set your meter to the hertz scale. Reading across the red and yellow wires at terminals 2 and 3 you should read between 60 and 350 hertz.

Thermal Fuse:

Red ~ Red	12 VDC	Below 1 ohm	B ~ C	B6 ~ C1
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Overheat Switch:

Red ~ Red	12 VDC	Below 1 ohm	B ~ C	B6 ~ C1
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Flame Rod:

Place one lead of your meter to the flame rod and the other to earth or ground. With the unit running you should read between 5 ~ 150 VAC. Set your meter to the μ amp scale, series your meter in line with the flame rod. You should read 1μ or greater for proper flame circuit. In the event of low flame circuit remove the flame rod and check for carbon and/or damage.

Heat Exchanger, Air Temperature, and Outgoing Water Temperature Thermostats:

Check all thermostats by inserting meter leads into each end of the thermostat plug. Set your meter to the 20K scale and read resistance. They should be able to apply heat to the thermostat bulb and see the resistance decrease. Then apply some ice to the thermostat and the resistance should increase. See below for examples of temperatures and resistance reading at those temperatures.

Example: 59°F = 11.4 ~ 14K
86°F = 6.4 ~ 7.8K
113°F = 3.6 ~ 4.5K
140°F = 2.2 ~ 2.7K
221°F = 0.6 ~ 0.8K

Outgoing Water Thermistor:

White ~ White	N/A	See example above	B	B3 ~ B4
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Heat Exchanger Temperature Thermistor:

White ~ White	N/A	See example above	B	B3 ~ B12
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Surge Protector:

Black ~ White	108 ~ 132 VAC	N/A	Surge Protector D1	1 ~ 3
Blue ~ Brown	108 ~ 132 VAC	N/A	Surge Protector D2	1 ~ 2

With the power off you can check the continuity through the surge protector. Place one meter lead on the top pin #1 of the surge protector and pin #2 on the bottom of the surge protector. Then check across top pin #3 and bottom pin #1, if you read continuity across these two points the surge protector is good. If you do not get continuity, replace the surge protector.

Remote Controls:

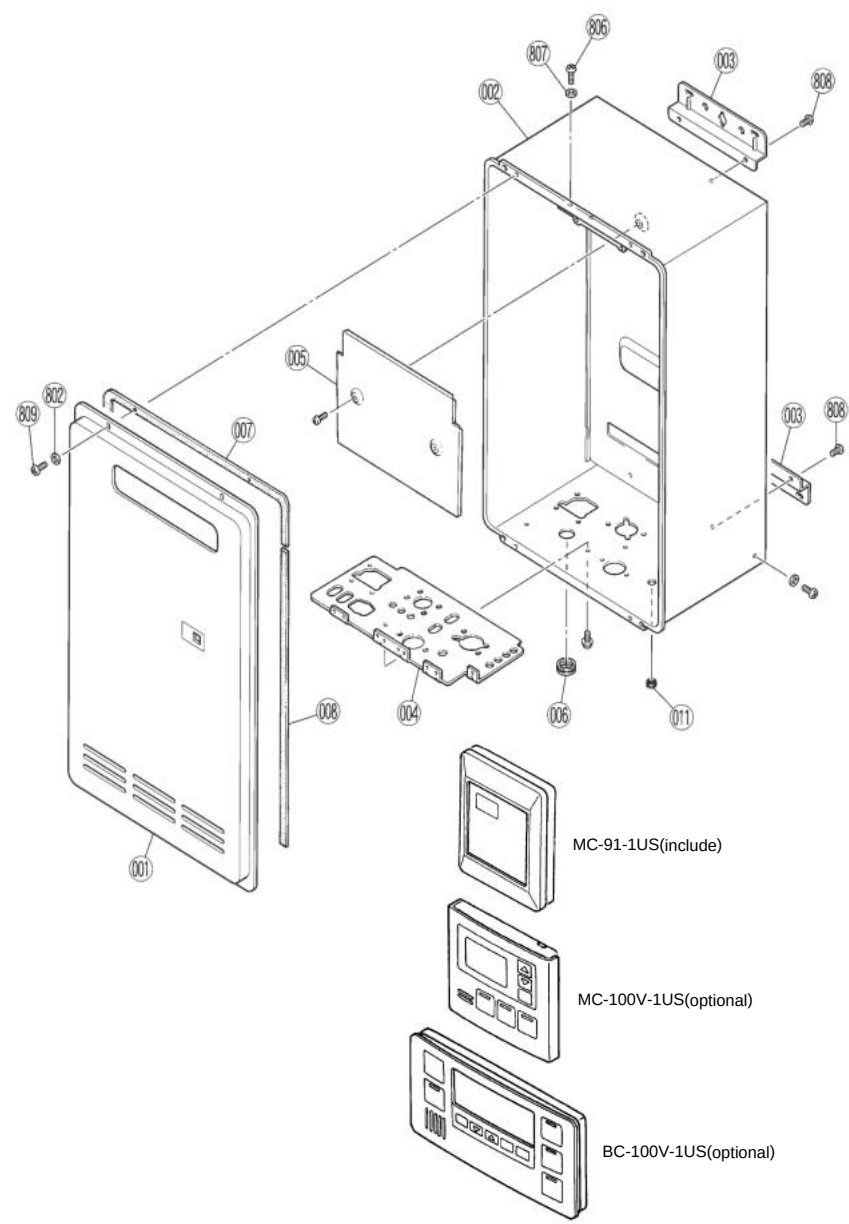
Terminals D1	10 ~ 13 VDC digital	1.5K ~ 1.9K ohms	H	1 ~ 3
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Frost Protection:

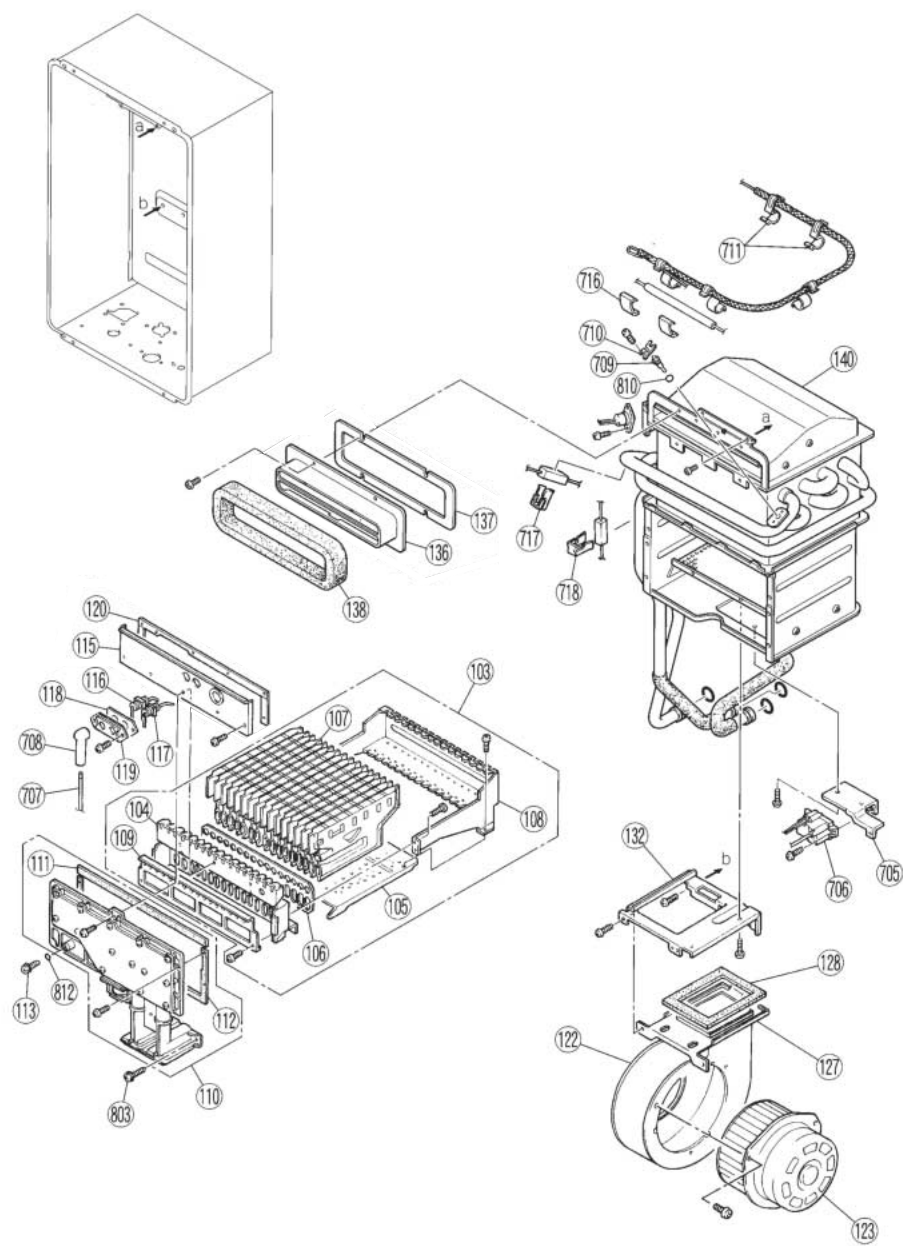
This unit has four frost protection heaters mounted at different points inside the unit, to protect the water heater from freeze ups. There are two heaters located on the outlet hot water line next to the thermostat.

Using a voltage meter set on the 200 ohm scale, you should have a resistance reading of 26 ~ 30 ohms through each of these heaters. The heater located on the heat exchanger piping should have a resistance reading of 81 ~ 86 ohms and the one located in the water flow sensor valve has a resistance reading of 16 ~ 19 ohms. Voltage throughout this circuit should be 120 VAC.

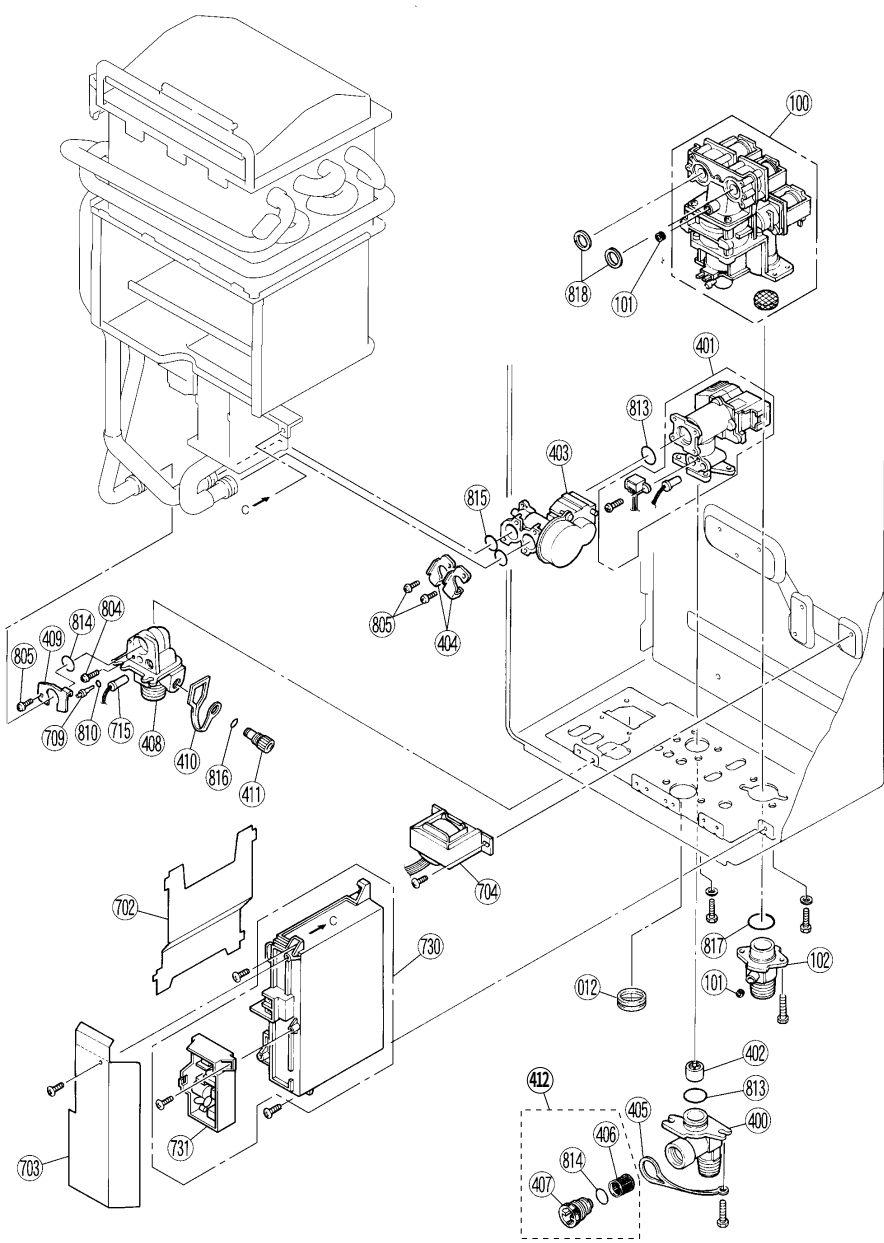
EXPLODED VIEW - CABINET



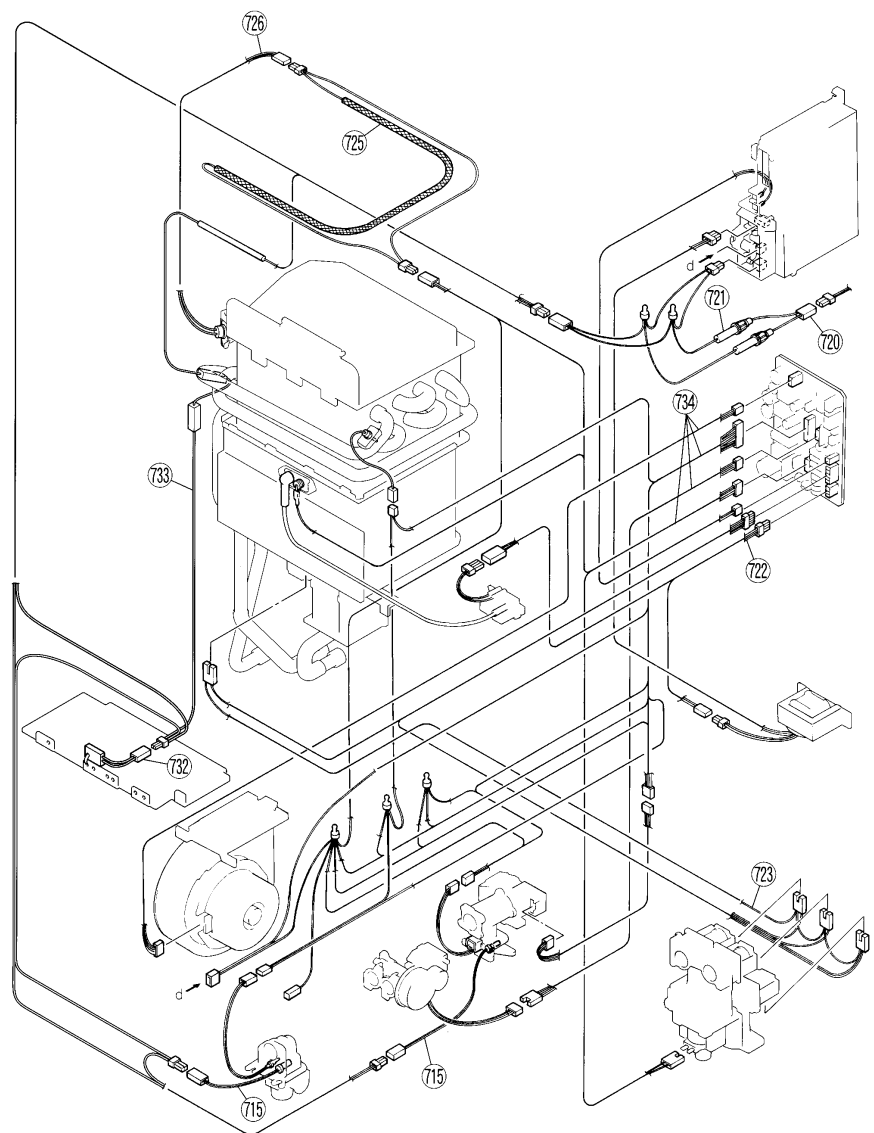
EXPLODED VIEW - INTERNALS



EXPLODED VIEW - INTERNALS



EXPLODED VIEW - ELECTRICAL



PARTS LIST

Quantity					Quantity					Quantity				
Number	Description	Part Number	V2532W/WC	V2526W	Number	Description	Part Number	V2532W/WC	V2526W	Number	Description	Part Number	V2532W/WC	V2526W
001	Front Panel Assembly (Residential model)	U245-1110	1	1	123	Blower Motor	H89-261	1	1	717	Anti-Frost Heater Clip A	AU111-653	1	1
001	Front Panel Assembly (Commercial model)	U245-1110-2	1	-	127	Fan Connecting Bracket	BH29-606	1	1	718	Anti-Frost Heater Clip	AU100-721	1	1
002	Casing Assembly (Residential model)	U245-1100	1	1	128	Fan Connecting Packing	AU183-562	1	1	720	Power Supply Harness	AU195-1876	1	1
002	Casing Assembly (Commercial model)	U245-1100-2	1	-	132	Combustion Chamber Bracket	U245-255	1	1	721	Fuse Harness	BU195-1630	1	1
003	Wall Installation Bracket	U195-121	2	2	135	Flue Outlet Assembly	U245-1131	1	1	722	100V Harness	U245-601	1	1
004	Connection Reinforcement Panel	U245-120	1	1	136	Flue Outlet	U245-1130	1	1	723	Solenoid Valve Harness	U245-602	1	1
005	Heat Protection Plate	U245-107	1	1	137	Flue Outlet Packing	U245-1122	1	1	725	Thermal Fuse Harness	U245-610	1	1
006	Rubber Bushing	CF79-41020-A	1	1	138	Flue Outlet Packing - 6	AH24-653-6	1	1	726	Mold-Type Over Heat Switch	BU129-821-2	1	1
007	Front Panel Packing	BU195-167	1	1	140	Heat Exchanger Complete Assembly	U245-1310	1	-	730	PCB	U245-1200	1	-
008	Front Panel Packing Side	AU115-163	2	2	140	Heat Exchanger Complete Assembly	U245-2520	-	1	730	PCB	U245-2540	-	1
009	Cable Connection	BU56-602-N	1	1	400	Water Inlet (3/4"NPT)	H73-501-2	1	1	731	Surge Protector	BU195-1873	1	1
010	Cable Seal Packing	AU169-126	1	1	401	Water Flow Servo & Sensor Assembly	M8E-15	1	-	732	Frost Sensing Switch	H73-750	1	1
011	Seal Packing	AU105-113	1	1	401	Water Flow Servo & Sensor Assembly	M8E-14	-	1	733	120V Anti-Frost Heater Assembly	U245-1320	1	1
100	Gas Control Assembly	C36E-41-S	1	1	402	Rectifier	M8D1-15	1	1	734	Sensor Harness - 2	U245-603-2	1	-
101	Screw	AU39-965	2	2	403	By-pass Servo Assembly	M6J-1-3	1	-	734	Sensor Harness - 5	U245-603-5	-	1
102	Gas Connection (3/4"NPT)	CU195-1866	1	1	404	Stop Bracket	AH69-310	2	-	802	Washer	AU33-184	4	4
103	Burner Unit Assembly	H73-110	1	1	404	Stop Bracket	AU195-321	-	1	803	Screw	CP-21478-412	3	3
104	Burner Case Front	CH51-209	1	1	405	Plug Band	H73-512	1	1	804	Screw	U217-449	1	1
105	Burner Case Bottom Panel	H73-112	1	1	406	Water Filter Assembly	H98-511	1	1	805	Screw	ZAA0408UK	3	3
106	Packing	BH51-218	1	1	407	Filter Plug	H98-510	1	1	806	Screw	ZBD0508UK	2	2
107	Lean and Rich	B3A7-1	16	16	408	Hot Water Outlet (3/4"NPT)	U245-865-3	1	1	807	Screw	AU48-174	2	2
	Bunsen Burner Assembly				409	Stop Bracket	AU162-1876	1	1	808	Screw	ZBA0510UK	4	4
108	Burner Case Back Panel	CH51-211	1	1	410	Plug Band Small	AU103-413	1	1	809	Screw	ZAD0408TK	4	4
109	Damper	H73-115	1	1	411	Drain Valve	AU142-444	1	1	810	O-ring	M10B-2-4	2	2
110	Manifold Assembly-A (LPG)	U245-200-A	1	1	412	Water Filter All Assembly	H98-510-S	1	1	812	O-ring	M10B-13-4	1	1
110	Manifold Assembly-C (Nat. G)	U245-200-C	1	1	702	PCB Cover-Side	BU195-507	1	1	813	O-ring	M10B-2-18	2	2
111	Packing of Combustion Chamber	AU155-207-2	1	1	703	PCB Cover-Front	BU168-707	1	1	814	O-ring	M10B-2-16	2	2
112	Lower Packing of Combustion Chamber	H73-214	1	1	704	Transformer Assembly	ET-281	1	1	815	O-ring	M10B-2-14	2	2
113	Screw	C10D-5	1	1	705	PCB Bracket	U245-257	1	1	816	O-ring	M10B-2-7	1	1
114	Combustion Chamber	U245-260	1	1	706	Ignitor	EI-189	1	1	817	O-ring	M10B-1-24	1	1
	Front Plate Assembly				707	High Tension Cord	BH38-710-240	1	1	818	Packing	C36E1-6	2	2
115	Combustion Chamber Front Plate	U245-261	1	1	708	Electrode Sleeve	AU206-218	1	1	888	Owner's Manual	U245-2600	1	1
116	Electrode	H73-120	1	1	709	Thermistor	BH45-650	2	2	-	Package Spec Sheet	PWB-261	1	1
117	Flame Rod	AH41-216	1	1	710	Thermistor Clip Large	CP-90172	1	1	-	Manual 3/4" gas control valve	BU195-1865	1	1
118	Electrode Packing	AH66-398	1	1	711	Thermal Fuse Clip	U217-676	5	5	-	Remote Controller (include)	MC-91-1US	1	1
119	Electrode Holder	AH66-393	1	1	714	Heater Connecting Harness	U245-621	1	1	-	Deluxe Controller (optional)	MC-100V-1US	1	1
120	Upper Packing of Combustion Chamber	U245-262	1	1	715	120V Valve Heater Assembly	U245-622	1	1	-	Deluxe Bathroom Controller (optional)	BC-100V-1US	1	1
122	Fan Casing Assembly	CH51-615	1	1	716	Anti-Frost Heater Clip	CF29-752	2	2					